Animal Profile Goats Safe

This topical volume in the respected Encyclopedia series is the first in many years to bring together all important aspects of developmental biology in one source, from morphogenesis and organogenesis, via epigenetic regulation of gene expression to evolutionary developmental biology. The editor-in-chief has assembled an outstanding team of contributors to review these topics, creating an authoritative work for many years to come. The result is a unique, top-level reference in developmental biology for researchers, students and professionals alike.

Written by specialists in the fields of food bioterrorism and industry preparedness. Bioterrorism and Food Safety focuses on developing rational and implementable food security strategies and plans. It integrates food safety issues, technological developments in traceability, and legal analysis of current and pending regulations with good bu

With coverage of current issues and emerging trends, Fowler's Zoo and Wild Animal Medicine, Volume 7 provides a comprehensive, all-new reference for the management of zoo and wildlife diseases. A Current Therapy format emphasizes the latest advances in the field, including nutrition, diagnosis, and treatment protocols. Cutting-edge coverage includes topics such as the "One Medicine" concept, laparoscopic surgery in elephants and rhinoceroses, amphibian viral diseases, and advanced water quality evaluation for zoos. Editors R. Eric Miller and Murray E. Fowler promote a philosophy of animal conservation, bridging the gap between captive and free-ranging wild animal medicine with chapters contributed by more than 100 international experts. The Current Therapy format focuses on emerging trends, treatment protocols, and diagnostic updates new to the field, providing timely information on the latest advances in zoo and wild animal medicine. Content ranges from drug treatment, nutrition, husbandry, surgery, and imaging to behavioral training. Coverage of species ranges from giraffes, elephants, lions, and orangutans to sea turtles, hellbenders, bats, kakapos, and more. An extensive list of contributors includes recognized authors from around the world, offering expert information with chapters focusing on the latest research and clinical management of captive and free-ranging wild animals. A philosophy of animal conservation helps zoo and wildlife veterinarians fulfill not only the technical aspects of veterinary medicine, but contribute to the overall biological teams needed to rescue many threatened and endangered species from extinction. All content is new, with coverage including coverage of cutting-edge issues such as white-nose disease in bats, updates on Ebola virus in wild great apes, and chytrid fungus in amphibians. Full-color photographs depict external clinical signs for more accurate clinical recognition. Discussions of the "One Medicine" concept include chapters addressing the interface between wildlife, livestock, human, and ecosystem health. New sections cover Edentates, Marsupials, Carnivores, Perrissodactyla, and Camelids. Over 100 new tables provide a quick reference to a wide range of topics. An emphasis on conserving threatened and endangered species globally involves 102 expert authors representing 12 different countries.

Piperonyl Butoxide contains 20 chapters contributed by world experts in the field on the properties, uses, plant metabolism, and mammalian and environmental toxicology of piperonyl butoxide. The mode of action of piperonyl butoxide is discussed as well as many other specialist topics, including the measurement of synergism in the laboratory, and the potential use of this chemical alone for the control of whiteflies, as well as with insect growth regulators. This book will prove to be a valuable reference for all concerned with the designing of safe and cost-effective insecticide formulations, particularly those used in the home, industry, or on or near animals and food.

Authoritative yet easy to read, Sheep and Goat Medicine, 2nd Edition covers all the latest advances in sheep and goat medicine, including medical treatment, surgery, theriogenology, and nutrition. Full-color photographs and clear instructions provide the answers you need, guiding you through common procedures and techniques such as restraint for examination, administration of drugs, blood collection, and grooming; these descriptions are often accompanied by explanatory diagrams and charts. With diseases, surgeries, and treatments organized by body system, information is always easy to find. New to this edition are chapters on parasite control, nutritional requirements, and performing a necropsy. Developed by Dr. D.G. Pugh, a world-renowned expert on the medical care of sheep and goats, this reference is unmatched for its comprehensive coverage of herd health, physical examination, anesthesia, and multisystem diseases. Clear writing style makes the book useful and easy to understand, even for sheep and/or goat owners who are not veterinarians. Both surgery and medicine are covered in each body systems chapter, so it's easier to choose between treatment options for specific disorders. Superbly illustrated surgical procedures clearly demonstrate the steps to follow in performing surgical procedures. An explanation of the differences in normal behavior between sheep and goats shows how they are not the same, and require different methods of treatment. A consistent, logical format in each body systems chapter makes information easy to find by beginning with physical examination and diagnostic procedures, followed by discussions of common diseases that involve the system. Consistent headings include pathogenesis, clinical signs, diagnosis, treatment, and prevention. A comprehensive nutrition chapter covers diet evaluation, method of balancing rations, total parenteral nutrition, and examples of nutritious diets. Practical formulas are included for making sodium sulfite for testing passive transfer, and Sheather's solution for fecal flotation. Useful appendices summarize essential information on drugs and drug dosages, fluid therapy, and normal values and conversions. A diverse, authoritative panel of contributors provides current information on the care of valuable breeding stock as well as pets. Full-color photographs and graphics accurately depict conditions and procedures. New Fluid Therapy and Nutritional Support chapter covers emergency and critical care essential to the care of sheep and goats. New Gastrointestinal Parasitism chapter covers treatments for parasites, key to the successful management of all flocks. New Necropsy chapter helps you prevent disease outbreaks in a flock by determining the cause of death.

This book discusses the different regulatory pathways for gene therapy (GT) and cell therapy (CT) medicinal products implemented by national and international bodies throughout the world (e.g. North and South America, Europe, and
Advances in Agricultural Animal Welfare fully explores developments in the key areas of agricultural animal welfare assessment and in animals and humans, the regulatory requirements necessary to move therapy from benchside research to patient bedside, as well as disseminate existing findings for the wider benefit of pets and humans. Many pets suffering from incurable illnesses may benefit from clinical research. Researchers and veterinarians have a multitude of questions regarding how to use naturally occurring diseases in pets for the discovery of benefits to the reader are: - The wide range of biological and chemical hazards covered in a single book - Written specifically with food industry professionals in mind - Easy to navigate and accessible for the non-expert - Clear and concise presentation of factual information presented in a format that lends itself to use in risk assessment exercises - Inclusion of references and web links to reliable sources of further information on each chapter - Specifically designed for practical use by a professional readership.

Learning from Disease in Pets: A ‘One Health’ Model for Discovery is the first encompassing reference guide for veterinarians, researchers and physicians on conducting studies using spontaneous models of disease in animals. The study of naturally occurring disease in (pet) animals can help model our understanding of the biology, prevention and therapy of human and animal diseases. Studies of pet dogs, for instance, can aid treatment of complex medical problems such as cancer, orthopedic, cardiopulmonary, and neuro-inflammatory diseases, and zoonotic infections. Each chapter within this novel cross-species approach is contributed by a leader, or leaders, in their field of research. Using clinical trials to learn how pets with real diseases respond to therapy can lead to breakthroughs in human medicine, as well as benefiting pets suffering from otherwise debilitating illness. Despite similarities of diseases across species, there are very few spontaneous models of disease used in research compared with models where disease is induced in healthy laboratory animals. Many medical researchers and veterinarians have a multitude of questions regarding how to use naturally occurring diseases in pets for the discovery of treatments and diagnostics: this book will demonstrate how to safely make this happen. This book encourages veterinarians to build on and disseminate existing findings for the wider benefit of pets and humans. Many pets suffering from incurable illnesses may benefit from clinical trials; the book includes a section on the imperative communication styles necessary within the research environment and with clients, a compelling discussion on the ethics of using pets in veterinary clinical research, comprehensive tables of diseases that spontaneously occur in animals and humans, the regulatory requirements necessary to move therapy from benchside research to patient bedside, as well as intricate details on how to design a robust clinical study.

Advances in Agricultural Animal Welfare fully explores developments in the key areas of agricultural animal welfare assessment and improvement. Analyzing current topical issues, as well as reviewing the historical welfare issues, the volume is a comprehensive review of the field. Divided into five sections, the book opens in Part One by reviewing advances in animal welfare science, examining cognitive psychology, genetics and genomics. Part Two then looks at transdisciplinary research in animal welfare, with coverage of bioethics, welfare...
and sustainability from both environmental and food safety perspectives. Part Three explores the process of translating science into policy and practice, followed by discussion on the global achievability of welfare standards in Part Four. Finally, Part Five highlights some emerging issues in agricultural animal welfare. This book is an essential part of the wider ranging series Advances in Farm Animal Welfare, with coverage of cattle, sheep, pigs, poultry and aquaculture. With its expert editor and international team of contributors, Advances in Agricultural Animal Welfare is a key reference tool for welfare research scientists and students, practicing vets involved in welfare assessment, and indeed anyone with a professional interest in the welfare of agricultural animals. Provides in-depth reviews of emerging topics, research and applications in agricultural animal welfare Provides coverage of topics important to all agricultural animals and complements the wider series, Agricultural Animal Welfare, which will provide comprehensive coverage of animal welfare of the world’s major farmed animals Edited by a world leading animal welfare academic, with contributions from a writing team of both leading academics and practitioners A comprehensive review of therapeutics and control of sheep and goat diseases for the food animal practitioner! Topics include pharmaceutical control of reproduction in sheep and goats, drug laws and regulations in sheep and goats, treatment and control of periodient parturient metabolic diseases in sheep and goats, treatment and control of mastitis and contagious agalactia, control of important clostridial diseases of sheep, treatment and control of ectoparasites in small ruminants, treatment and control of respiratory disease in sheep, treatment of emergency conditions in sheep and goat, control of brucella ovis infection in sheep, non-pharmaceutical control of endoparasitic infections of sheep, anaesthesia and analgesia in sheep and goats, control of paratuberculosis in sheep and goats, pharmaceutical control of endoparasitic infections in sheep, treatment and control of hoof disorders in sheep and goats, and much more! Learn how chickens, pigs, sheep, cows, and other livestock should be taken care of. A different animal is devoted to each chapter of this completely illustrated book, and you can learn not only how to take care of them, but also what kinds of things you can get from them. Cows, chickens, ducks, goats, pigs, rabbits, and sheep: different farm animals and how to keep them: Detailed guidance on each animal's care, handling, feeding, health and safety, including breeding and raising young animals Breast profiles of the most common varieties, from the Red Chicken of Rhode Island to the Goat Kiko Troubleshooting and warding off pathogens, parasites and predators from possible problems Bounty sales tips, with suggestions for eggs, milk, fiber, beef, lamb, pork, and more. Eggs, poultry, milk, wool, fur, feathers, and some invaluable bucolic bliss: What is a hobby farm without a small flock or herd (or a few)? Expertise gained from years of keeping animals for fun and benefit in this book. If you want a small herd pepperding the field or a microflock flapping around the hen house or pond, this information-packed volume contains everything a Animal husbandry for dummies farmer needs to know about farm animals! This book offers the experience farmers with a detailed manual for the collection, treatment and breeding of animals. Get the comprehensive guidance you need to welcome each type of livestock onto your farm and into your life, with Animal Husbandry for Dummies! Diseases of the Goat, 4th Edition, is a revised and updated edition of the popular tool for veterinarians featuring of all aspects of goat medicine—from initial assessment and examination to diagnosis, treatment, and control of conditions. This highly practical, concise handbook is designed for frequent reference, and is suitable for all those treating and keeping goats. Provides information on to predators, euthanasia, post-mortem technique, and fracture repair. Includes expanded coverage of a number of topics to appeal to a wider and more international audience especially in relation to poisonous plants. Incorporates the impact of new developments in goat diseases, such as the geographical spread of exotic diseases into new regions. The second edition of this highly usable working companion on food safety is an indispensable resource for food scientists worldwide. Mediterranean inhabitants depend on natural resources for their livelihoods. Livestock production and forestry are key sources of income yet are carried out under harsh conditions such as limited land resources, marginal agricultural conditions, isolation, and scant equipment and infrastructure. Livestock is of particular importance in mountain production systems as they convert plant biomass into useful products for humans such as milk, meat and draught power. These products are key to the regions’ sustainability. The main topics discussed in this book are: Human geography of Mediterranean mountain territories. Livestock production and natural resources. Improving the efficiency of livestock systems in Mediterranean mountain areas. Applications of new technologies for environmentally sound management of livestock and natural resources. The role livestock plays in rural development and in safeguarding natural resources. Developed through an extensive process of consultation with leading professionals and health and safety institutions worldwide, the new, expanded, and long-awaited Fourth Edition of this well-respected reference provides comprehensive, timely, and accurate coverage of occupational health and safety. Aimed at the specialist and non-specialist alike, such as lawyers, doctors, nurses, engineers, toxicologists, regulators, and other safety professionals, this compendium is organized and designed to provide the most critical information in an easy-to-read format. It uses more than 1,000 illustrations, a new attractive layout, and provides thousands of cited references that provide up-to-date literature reviews. Indexes by subject, chemical name, and author make navigating through information quick and easy. The CD-ROM version includes the same information as the print volumes, plus the benefit of a powerful search and retrieval engine to make searching for information as easy as a mouse click. Here's a sampling of what's covered in each volume and the CD-ROM: Volume 1: The body, health care, management and policy, tools and approaches Volume 2: Psychological and organizational factors, hazards, the environment, accidents, and safety Volume 3: Chemicals, industries and occupations Volume 4: Index by subject, chemical name, author, cross-reference guide, directory of contributors. The revised edition of this renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science. It provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. Over 29,000 copies sold, this is the most comprehensive coverage of principles and applications of all classes of biomaterials: “the only such text that currently covers this area comprehensively” - Materials Today Edited by four of the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and expanded, key new topics include of tissue engineering, drug delivery systems, and new clinical applications, with new teaching and learning material throughout, case studies and a downloadable image bank PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e-reference@taylorandfrancis.com Containing case studies that complement material presented in the text, the vast range of this definitive Encyclopaediacompasses animal physiology, animal growth and development, animal behavior, animal reproduction and breeding, alternative approaches to animal maintenance, meat science and muscle biology, farmed animal welfare and bioethics, and food safety. With contributions from top researchers in their discipline, the book addresses new research and advancements in this burgeoning field and provides quick and reader-friendly descriptions of technologies critical to professionals in animal and food science, food production and processing, livestock management, and nutrition.
Since the second edition of Listeria, Listeriosis, and Food Safety was published in 1999, the United States has seen a 40 percent decline in the incidence of listeriosis, with the current annual rate of illness rapidly approaching the 2010 target of 2.5 cases per million. Research on this food-borne pathogen, however, has continued unabated, concentrating in the last five years on establishing risk assessments to focus limited financial resources on certain high-risk foods. Listeria, Listeriosis, and Food Safety, Third Edition summarizes much of the newly published literature and integrates this information with earlier knowledge to present readers with a complete and current overview of foodborne listeriosis. Two completely new chapters have been added to this third edition. The first deals with risk assessment, cost of foodborne listeriosis outbreaks, and regulatory control of the Listeria problem in various countries. The second identifies specific data gaps and directions for future research efforts. All of the chapters from the second edition have been revised, many by new authors, to include updated information on listeriosis in animals and humans, pathogenesis and characteristics of Listeria monocytogenes, methods of detection, and subtyping. The text covers the incidence and behavior of Listeria monocytogenes in many high-risk foods including, fermented and unfermented dairy products, meat, poultry, and egg products, fish and seafood products, and products of plant origin. Upholding the standard of the first two editions, Listeria, Listeriosis, and Food Safety, Third Edition provides the most current information to food scientists, microbiologists, researchers, and public health practitioners.

In order to understand and manage animals in their natural or captive environments we must first understand why animals do what they do and recognize limitations in their ability to adapt to different environments. Drawing on the author's considerable experience in both teaching and research, this introductory-level textbook describes the basic principles underlying animal behavior and how those concepts can be used in managing the care of domestic and captive wild animals, covering four key themes: development of behavior, biological rhythms, social behavior and behavioral aspects of animal management. Extensively illustrated with many practical examples and over 150 photos and figures, the book will be essential reading for animal science and veterinary students.

Eggs, meat, milk, wool, fur, feathers, and some priceless bucolic bliss. No hobby farm is complete without critters...possibly a small herd peppering the field or a microflock flapping around the hen house or pond. A single information-packed volume with everything a hobby farmer needs to know about farm animals, this new comprehensive manual to selecting, caring for, and breeding livestock brings forth the expertise of six hobby farmers, each of whom has real-life on-the-farm experience with the animals she discusses. Whether you're contemplating adding a small herd of sheep or goats to your existing hobby farm or you've always wondered about the benefits of raising angora rabbits or Muscovy ducks, Livestock for Your Hobby Farm provides the kind of guidance you need to begin a herd or flock and expand your pens and fencing. With exhaustive detail, the authors offer complete coverage of chickens, ducks, goats, sheep, cattle, pigs, and rabbits, including the housing, health-care, special needs, advantages and challenges of each.

-Extensive sections devoted to the seven major farm animals, including profiles of the most popular breeds and varieties
-Detailed how-to chapters on the care, handling, feeding, health, and safety of each animal
-Special chapters devoted to the breeding and raising of young animals
-Recommendations for ways of capitalizing on your livestock's output, from selling eggs, milk, fiber, and so forth
-Tips for troubleshooting potential problems and warding off diseases, parasites, and predators

Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, reproduction, milk and meat production, animal health and parasitism, etc., up to the effects of goat products on human health. In this book, several parts of them are presented within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of digesta in goats, but for diet properties, goats are similar to other ruminants. Iodine deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all of the abovementioned characteristics of goats.

This volume covers scientific topics from cellular pathogenesis to global pandemics to promote discussion and update researchers, academics, governmental and NGOs representatives, technicians, veterinarians and other professionals from the industry sector interested in tropical veterinary medicine. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions, please visit www.blackwellpublishing.com/nyas. ACADEMY MEMBERS: Please contact the New York Academy of Sciences directly to place your order (www.nyas.org). Members of the New York Academy of Science receive full-text access to the Annals online and discounts on print volumes. Please visit www.nyas.org/membership/main.asp for more information about becoming a member.

"Each additive is covered in a separate, alphabetically listed entry." Entries give CAS number, properties, synonyms, use in foods, and safety profile.

Globalization of the food supply has created conditions favorable for the emergence, reemergence, and spread of food-borne pathogen-compounding the challenge of anticipating, detecting, and effectively responding to food-borne threats to health. In the United States, food-borne agents affect 1 out of 6 individuals and cause approximately 48 million illnesses, 128,000 hospitalizations, and 3,000 deaths each year. This figure likely represents just the tip of the iceberg, because it fails to account for the broad array of food-borne illnesses or for their wide-ranging repercussions for consumers, government, and the food industry—both domestically and internationally. A One Health approach to food safety may hold the promise of harnessing and integrating the expertise and resources from across the spectrum of multiple health domains including the human and veterinary medical and plant pathology communities with those of the...
wildlife and aquatic health and ecology communities. The IOM's Forum on Microbial Threats hosted a public workshop on December 13 and 14, 2011 that examined issues critical to the protection of the nation's food supply. The workshop explored existing knowledge and unanswered questions on the nature and extent of food-borne threats to health. Participants discussed the globalization of the U.S. food supply and the burden of illness associated with foodborne threats to health; considered the spectrum of food-borne threats as well as illustrative case studies; reviewed existing research, policies, and practices to prevent and mitigate foodborne threats; and, identified opportunities to reduce future threats to the nation's food supply through the use of a "One Health" approach to food safety. Improving Food Safety Through a One Health Approach: Workshop Summary covers the events of the workshop and explains the recommendations for future related workshops.

Microbial Food Safety in Animal Agriculture Current Topics John Wiley & Sons Goat ScienceBoD – Books on Demand Animal Agriculture: Sustainability, Challenges and Innovations discusses the land-based production of high-quality protein by livestock and poultry and how it plays an important role in improving human nutrition, growth and health. With exponential growth of the global population and marked rises in meat consumption per capita, demands for animal-source protein are expected to increase 72% between 2013 and 2050. This raises concerns about the sustainability and environmental impacts of animal agriculture. An attractive solution to meeting increasing needs for animal products and mitigating undesirable effects of agricultural practices is to enhance the efficiency of animal growth, reproduction, and lactation. Currently, there is no resource that offers specific knowledge of both animal science and technology, including biotechnology for the sustainability of animal agriculture for the expanding global demand of food in the face of diminishing resources. This book fills that gap, giving readers all the necessary information on important issues facing modern animal agriculture, namely its sustainability, challenges and innovative solutions. Integrates new knowledge in animal breeding, biotechnology, nutrition, reproduction and management. Addresses the urgent issue of sustainability in modern animal agriculture. Provides practical solutions on how to solve the current and future problems that face animal agriculture worldwide.

Studying Captive Animals outlines the methods that may be used to study the behaviour, welfare and ecology of animals living under the control of humans, including companion animals, feral populations, and those living on farms and in zoos. This book is a step-by-step guide to the whole process of conducting a scientific study: from designing the original project, formulating testable hypotheses, and collecting and analysing the data, to drawing conclusions from the work and writing it up as a scientific report or paper. It also illustrates how to write a formal research proposal - a crucial and often difficult element of the student project - and how to deal with the ethical review process. Sample data collection sheets are provided and the analysis and presentation of data are worked through in diagrammatic form. In addition, exercises are included that enable the reader to practice analysing different types of data and advice is provided on the selection of appropriate statistical tests. The text describes the different types of student projects that may be undertaken in the field, and explains where secondary data may be found for zoos. This is an insightful resource, particularly for those studying and working with zoo and farm animals. It is essential reading for students studying zoo biology and animal management; it is also suitable for students on courses in animal behaviour, animal welfare, zoology, biology, psychology, animal science, animal production, animal ecology, conservation biology, and veterinary science. This book is primarily intended for undergraduates but will also be of value to postgraduate students who have not previously engaged in field studies. Professionals working in institutions that are members of the World Association of Zoos and Aquariums, the European Association of Zoos and Aquariums and other regional and national zoo organisations will benefit from access to this practical guide.

This comprehensive work, aimed at both students and researchers alike, systematically covers all aspects of prion diseases (transmissible spongiform encephalopathies), from their history, microbiology and pathology to their transmissibility and prevention. The book describes diseases such as Creutzfeldt-Jakob disease, kuru, mad cow disease (BSE), chronic wasting disease and scrapie, highlighting their biochemical, molecular biological, genetic, and clinical aspects. A renowned editorial team brought together 80 internationally respected authors for this translation and new edition of the successful German publication. The book includes chapters by, among many other notable scientists, William J. Hadlow, who discovered the relationship between the human and animal forms of prion diseases and Michael P. Alpers, with 45 years of experience in Papua New Guinea investigating the first known human epidemic form, kuru, transmitted by endocannibalism. Carefully edited with numerous illustrations, this work offers a systematic approach committed to a clear presentation of the current knowledge of prion diseases. It aims to inspire and stimulate interdisciplinary cooperation, innovative research ideas and effective prevention.

Animal products are good source of disposable income for many small farmers in developing countries. In fact, livestock are often the most important cash crop in many small holder mixed farming systems. Livestock ownership currently supports and sustains the livelihoods of rural poor, who depend partially or fully on livestock for their income and/or subsistence. Human population growth, increasing urbanization and rising incomes are predicted to double the demand for, and production of, livestock products in the developing countries over the next twenty years. The future holds great opportunities for animal production in developing countries. Animal Sourced Foods for Developing Economies addresses five major issues: 1) Food safety and nutritional status in developing world; 2) the contribution of animal origin foods in human health; 3) Production processes of animal foods along with their preservation strategies; 4) functional outcomes of animal derived foods; and, finally, 5) strategies, issues and policies to promote animal origin food consumption. Animal sourced food contain high biological value protein and important micronutrients required for optimal body functioning but are regarded as sources of fat that contribute to the intake of total and saturated fatty acids in diet. The quality of protein source has a direct influence on protein digestibility, as a greater proportion of higher quality proteins is absorbed and
becomes available for bodily functions. Animal foods has high quantity and quality of protein that includes a full complement of the essential amino acids in the right proportion. Land availability limits the expansion of livestock numbers in extensive production systems in most regions, and the bulk of the increase in livestock production will come from increased productivity through intensification and a wider adoption of existing and new production and marketing technologies. The significant changes in the global consumption and demand for animal source foods, along with increasing pressures on resources, are having some important implications for the principal production systems. In this book, contributors critically analyze and describe different aspects of animal's origin foods. Each chapter is dedicated to a specific type of food from animal source, its nutritional significance, preservation techniques, processed products, safety and quality aspects on conceptual framework. Special attention is given to explain current food safety scenario in developing countries and contribution of animal derived food in their dietary intake. Existing challenges regarding production, processing and promotion of animal’s origin foods are also addressed with possible solutions and strengthening approaches.

Laboratory Animal Welfare provides a comprehensive, up-to-date look into the new science of animal welfare within laboratory research. Animals specifically considered include rodents, cats and dogs, nonhuman primates, agricultural animals, avian animals and aquatic animals. The book examines the impact of experiment design and environment on animal welfare, as well as emergency situations and euthanasia practices. Readers will benefit from a review of regulations and policy guidelines concerning lab animal use, as well as information on assessing animal welfare. With discussions of the history and ethics of animals in research, and a debate on contemporary and international issues, this book is a go-to resource for laboratory animal welfare.

The dairy chain is an integral part of global food supply, with dairy food products a staple component of recommended healthy diets. The dairy food chain from production through to the consumer is complex, with various opportunities for microbial contamination of ingredients or food product, and as such interventions are key to preventing or controlling such contamination. Dairy foods often include a microbial control step in their production such as pasteurization, but in some cases may not, as with raw milk cheeses. Microbial contamination may lead to a deterioration in food quality due to spoilage organisms, or may become a health risk to consumers should the contaminant be a pathogenic microorganism. As such food safety and food production are intrinsically linked. This Research Topic eBook includes submissions on issues relating to the microbiological integrity of the dairy food chain, such as the ecology of pathogenic and spoilage organisms through the dairy farm to fork paradigm, their significance to dairy foods and health, and genomic analysis of these microorganisms.

A volume in the American College of Laboratory Animal Medicine series, this second edition has over 40% new material, including the addition of six new topics and many others that are completely rewritten. The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal research.

Fully revised and expanded, Goat Medicine, Second Edition includes discussions on new diseases ranging from bovine spongiform encephalopathy to floppy kid disease as well as major updates on important diseases such as scrapie, mycoplasmosis, paratuberculosis, and urolithiasis. Information has also been added on management of transgenic goats and organic goat production. The text begins by outlining fundamentals of goat practice and moves on to systems-based coverage of the goat. Each chapter provides clinical anatomy and physiology of every system alongside information on relevant clinical signs, differential diagnosis, and system-specific disease.

Much has been written about the care of research animals. Yet little guidance has appeared on protecting the health and safety of the people who care for or use these animals. This book, an implementation handbook and companion to Guide For the Care and Use of Laboratory Animals, identifies principles for building a program and discusses the accountability of institutional leaders, managers, and employees for a program's success. It provides a detailed description of risks--physical and chemical hazards, allergens and zoonoses, and hazards from experiments--which will serve as a continuing reference for the laboratory. The book offers specific recommendations for controlling risk through administrative procedures, facility design, engineering controls, and periodic evaluations. The volume focuses on the worker, with detailed discussions of work practices, the use of personal protective gear, and the development of an emergency response plan. This handbook will be invaluable to administrators, researchers, and employees in any animal research facility. It will also be of interest to personnel in zoos, animal shelters, and veterinary facilities.